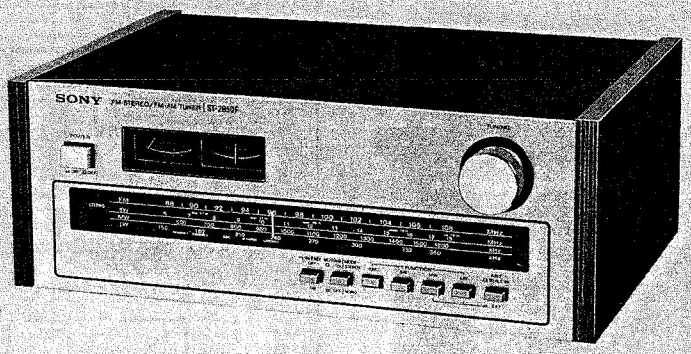
ST-2950F

UK Model
AEP Model



FM STEREO/FM-AM TUNER

SPECIFICATIONS

GENERAL

Power Requirements: 110, 127, 220 or 240 V ac adjustable, 50/60 Hz

Power Consumption: 23 W

Dimensions: Approx. 390 (w) x 145 (h) x 310 (d) mm
15⅜ (w) x 5¾ (h) x 12¼ (d) inches
Including projecting parts and controls

Weight: Approx. 6.0 kg, 13 lb 4 oz (net)
Approx. 7.8 kg, 17 lb 2 oz (with shipping carton)

FM SECTION

Tuning Range: 87.5 MHz – 108 MHz

Antenna Terminals: 300 Ω balanced
75 Ω unbalanced

Intermediate Frequency: 10.7 MHz

Sensitivity at 50 dB Quieting: 4.0 μV (MONO)
50 μV (STEREO)

Sensitivity at 46 dB Quieting (40 kHz deviation): 50 μV (STEREO)

Usable Sensitivity: 2.0 μV (IHF)
1.7 μV, S/N = 26 dB (40 kHz deviation)

S/N Ratio: 73 dB (MONO)
68 dB (STEREO)

Harmonic Distortion:

at 100 Hz	0.2 % (MONO) 0.3 % (STEREO)
at 1 kHz	0.2 % (MONO) 0.3 % (STEREO)
at 10 kHz	0.2 % (MONO) 0.6 % (STEREO)

IM Distortion: 0.2 % (MONO)
0.3 % (STEREO)

Separation: 35 dB at 100 Hz
40 dB at 1 kHz
35 dB at 10 kHz

Frequency Response: 40 Hz – 12.5 kHz $^{+0.5}_{-1.5}$ dB

Alternate Channel Selectivity: 50 dB (400 kHz)

Capture Ratio: 1.0 dB

AM Suppression Ratio: 54 dB

Image Response Ratio: 45 dB

IF Response Ratio: 90 dB

Spurious Response Ratio: 75 dB

RF Intermodulation: 60 dB

Sub-carrier Product Ratio: 50 dB

Muting Threshold: Approx. 5 μV

Output Level/impedance: 750 mV, 5 kΩ at 100 % modulation

SONY®
SERVICE MANUAL

AM (MW, LW and SW) SECTION

		MW	LW	SW
Tuning Range		530 kHz – 1,605 kHz	150 kHz – 350 kHz	6 MHz – 18 MHz
Antenna	built-in	provided	provided	none
	external	provided	provided	provided
Intermediate Frequency		468 kHz		
Usable Sensitivity	built-in antenna	250 μV/m (1,000 kHz)	500 μV/m (250 kHz)	----------
	external antenna	100 μV (1,000 kHz)	100 μV (250 kHz)	30 μV (12 MHz)
S/N Ratio		50 dB (50 mV/m)	50 dB (50 mV/m)	50 dB (5 mV)
Harmonic Distortion		0.5 % (50 mV/m, 400 Hz)	0.5 % (50 mV/m, 400 Hz)	0.5 % (5 mV, 400 Hz)
Selectivity		50 dB (10 kHz)	50 dB (10 kHz)	45 dB (10 kHz)

MEMO

SECTION 3
ALIGNMENTS AND ADJUSTMENTS

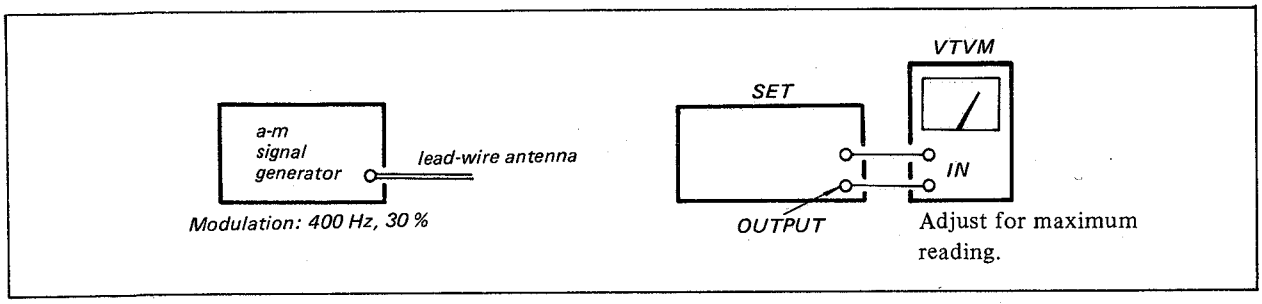
FM FREQUENCY COVERAGE AND TRACKING ALIGNMENT

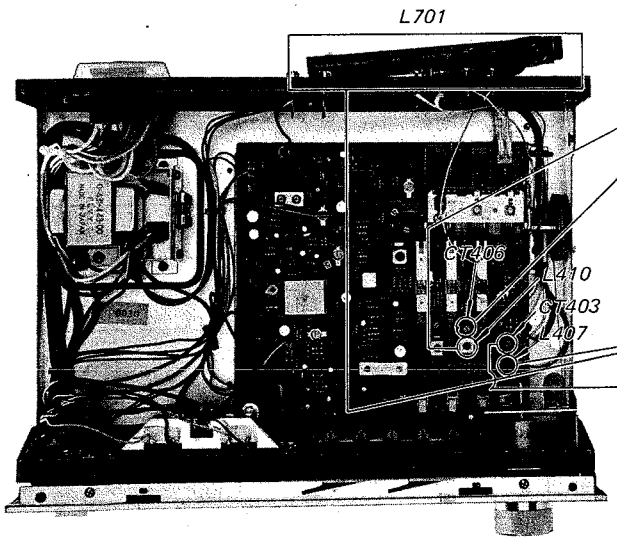
Never attempt alignment of the fm front-end section for the fm frequency coverage and tracking alignment. If the fm frequency coverage alignment is required, replace the fm front-end board.

In the case of tracking alignment, ask your nearest SONY Service Station to send your set to the Factory Service Center.

LW/MW/SW FREQUENCY COVERAGE AND TRACKING ALIGNMENT

Setup:



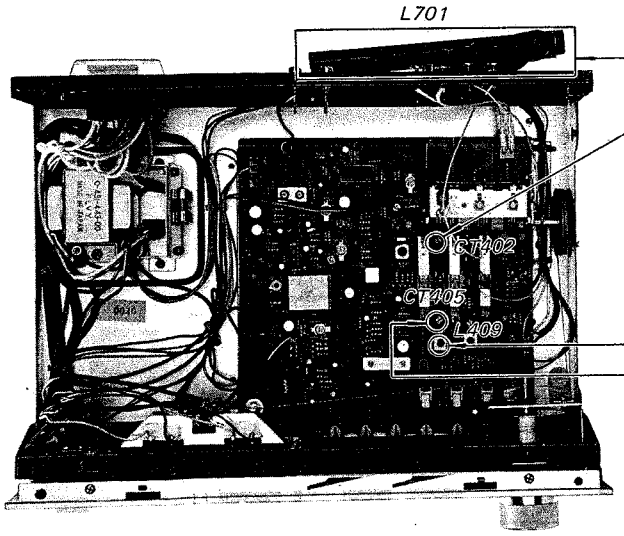


Step	LW FREQUENCY COVERAGE ALIGNMENT	DIAL INDICATION
1	L410 (150 kHz)	150 kHz
2	CT406 (350 kHz)	350 kHz

Note: Repeat step 1 and 2 several times, and finish the alignment at step 2.

Step	LW TRACKING ALIGNMENT
1	L407, 701 (150 kHz)
2	CT403 (300 kHz)

Note: Repeat step 1 and 2 several times, and finish the alignment at step 2.

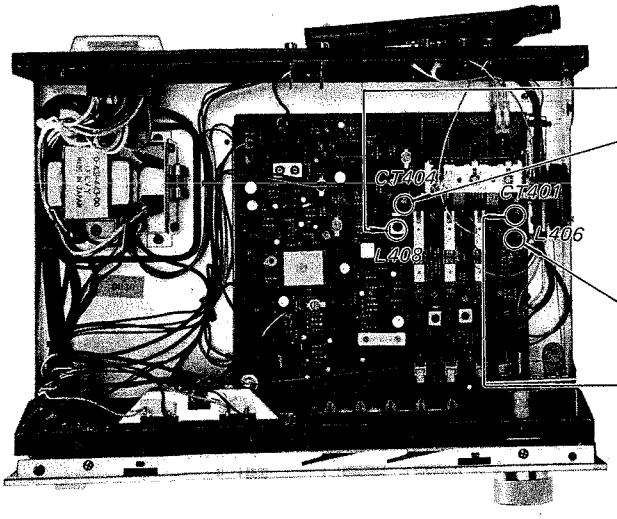


Step	MW TRACKING ALIGNMENT
1	L701 (600 kHz)
2	CT402 (1,400 kHz)

Note: Repeat step 1 and 2 several times, and finish the alignment at step 2.

Step	MW FREQUENCY COVERAGE ALIGNMENT
1	L409 (530 kHz)
2	CT405 (1,605 kHz)

Note: Repeat step 1 and 2 several times, and finish the alignment at step 2.



Step	SW FREQUENCY COVERAGE ALIGNMENT	DIAL INDICATION
1	L408 (6 MHz)	6 MHz
2	CT404 (18 MHz)	18 MHz

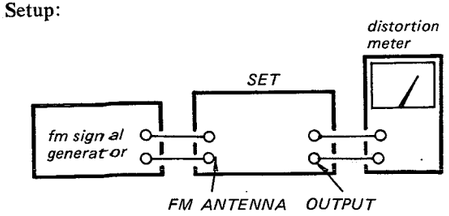
Note: Repeat step 1 and 2 several times, and finish the alignment at step 2.

Step	SW TRACKING ALIGNMENT
1	L406 (6 MHz)
2	CT401 (18 MHz)

Note: Repeat step 1 and 2 several times, and finish the alignment at step 2.

FM IF ALIGNMENT

Setup:



FM Signal Generator Setting:

Carrier frequency:	98 MHz
Modulation:	400 Hz, 75 kHz deviation (100 %)
Output level:	1 mV (60 dB)

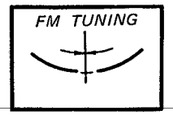
Procedure:

Tune the set to 98 MHz and adjust the primary-side core (black) of IFT201 for a minimum distortion reading.

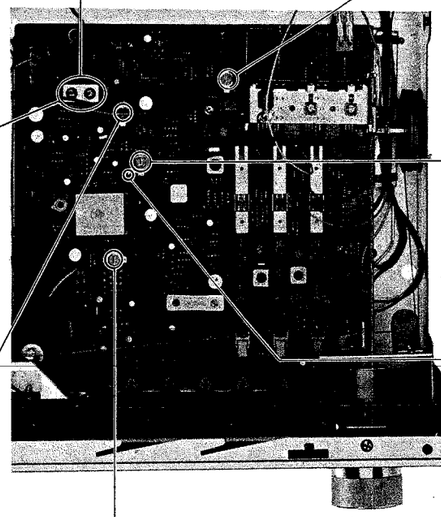
FM DISCRIMINATOR ALIGNMENT

Procedure:

1. Detune the set.
2. Turn the secondary-side core (blue) of IFT201 for null-point reading on the FM TUNING meter.

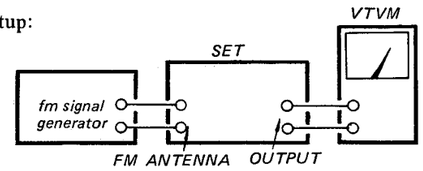


Null-point reading



SIGNAL METER ADJUSTMENT

Setup:

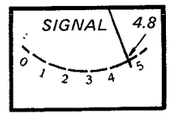


FM Signal Generator Setting:

Carrier frequency:	98 MHz
Modulation:	400 Hz, 75 kHz deviation (100 %)
Output level:	1 mV (60 dB)

Procedure:

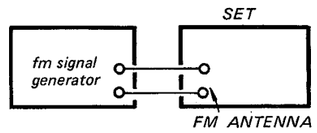
Tune the set to 98 MHz and adjust RT201 for specified pointer position (See figure below.) on the SIGNAL meter.

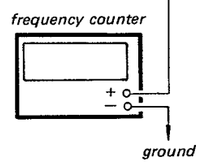


19 kHz ADJUSTMENT

Setup:

MUTING/MODE switch: ON/STEREO





FM Signal Generator Setting:

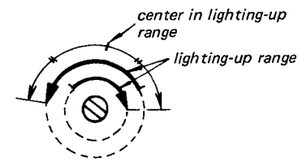
Carrier frequency:	98 MHz
Modulation:	400 Hz, 75 kHz deviation (100 %)
Output level:	1 mV (60 dB)

A) With Frequency Counter
Procedure:

1. Tune the set to 98 MHz.
2. Adjust RT301 for 19 kHz ± 100 Hz on the counter.

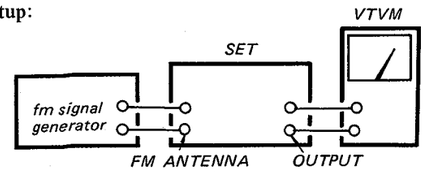
B) Without Frequency Counter
Procedure:

1. Tune the set to FM stereo signal.
2. Turn RT301 clockwise or counterclockwise and secure RT301 at the center in lighting-up range of stereo lamp as shown below.



FM OUTPUT LEVEL ADJUSTMENT

Setup:



FM Signal Generator Setting:

Carrier frequency:	98 MHz,
Modulation:	400 Hz, 75 kHz deviation (100 %)
Output level:	1 mV (60 dB)

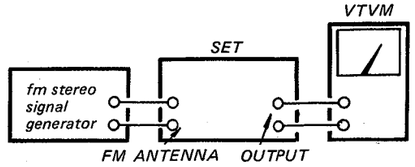
Procedure:

Adjust RT202 for 750 mV (−0.3 dB) reading on the VTVM.

FM STEREO SEPARATION ADJUSTMENT

Setup:

MUTING/MODE switch: ON/STEREO



FM Stereo Signal Generator Setting:

Main carrier frequency:	98 MHz
Output level:	1 mV (60 dB)
Mode:	Stereo
Audio (400 Hz) Mod:	67.5 kHz deviation (90 %)
Pilot (19 kHz) Mod:	7.5 kHz deviation (10 %)

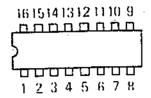
Procedure:

1. Set the signal generator channel selector to L-CH.
2. Tune the set to 98 MHz.
3. Connect the VTVM to the OUTPUT "L-CH" of the set and calibrate the VTVM for 0 dB reading.
4. Turn the stereo signal generator channel selector from L-CH to R-CH and adjust RT501 for minimum output on the VTVM.
5. Connect the VTVM to the OUTPUT "R-CH" of the set and calibrate the VTVM for 0 dB reading.
6. Turn the stereo signal generator channel selector from R-CH to L-CH and adjust RT501 for minimum output on the VTVM.

SECTION 4
DIAGRAMS

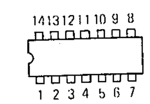
4-1. MOUNTING DIAGRAM
– Conductor Side –

IC201: HA1137



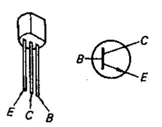
(Top view)

IC301: HA-1156

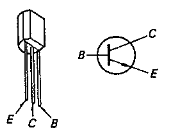


(Top view)

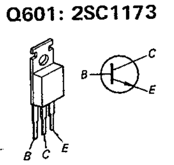
Q201, Q501, 502: 2SC900



Q401 ~ 406: 2SC710

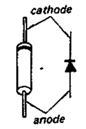


Q601: 2SC1173

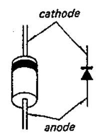


D201, 301, D401, 402: 1S1555

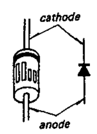
D202, D403: 1T22A

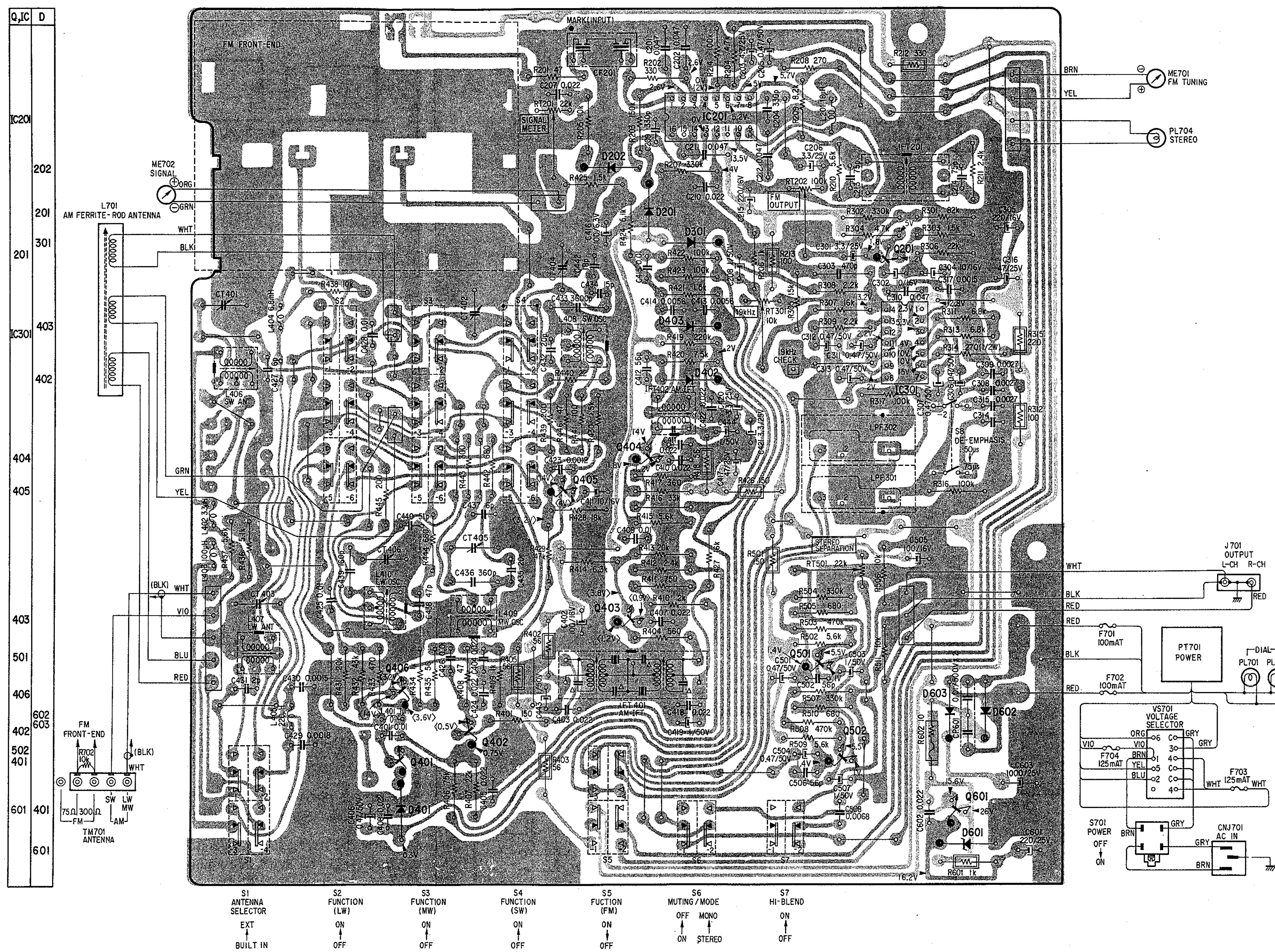


D602, D603: 10E2



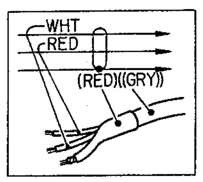
D601: EQA01-16R



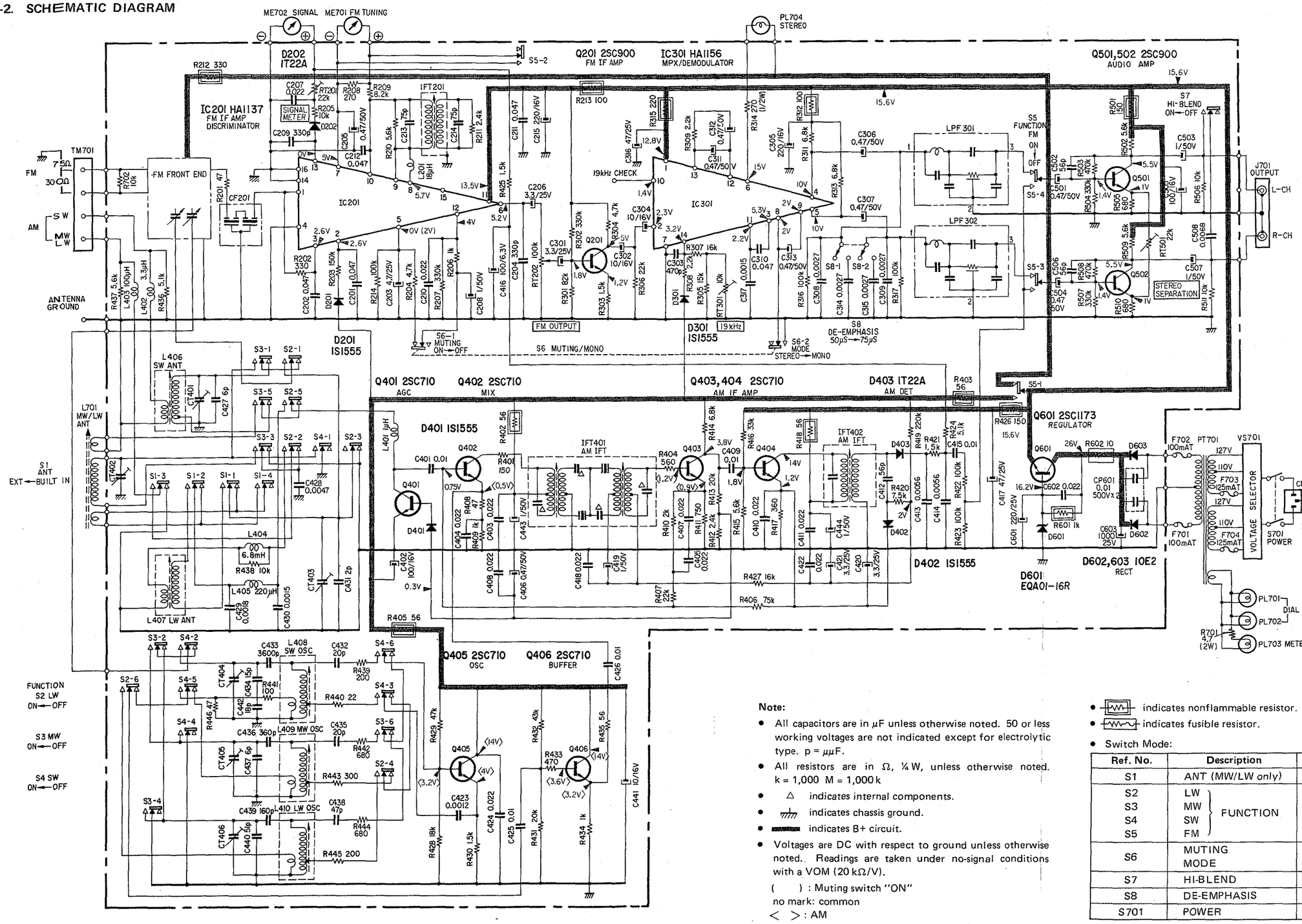

Q,IC
D
IC201
202
201
301
201
IC301
403
402
404
405
403
501
406
602
603
402
502
401
601
401
601
FM FRONT-END
MARK(INPUT)
ME702
SIGNAL
ORG
GRN
L701
AM FERRITE-ROD ANTENNA
WHT
BLK
GRN
YEL
(BLK)
WHT
VIO
BLU
RED
FM
FRONT-END
R702
10k
(BLK)
WHT
SW LW
MW
75Ω 300Ω
FM
AM
TM701
ANTENNA
SIGNAL METER
FM OUTPUT
19kHz CHECK
STEREO SEPARATION
IC201
IC301
IFT201
LPF302
LPF301
S8
DE-EMPHASIS
50µs
75µs
BRN
YEL
ME701
FM TUNING
PL704
STEREO
J701
OUTPUT
L-CH R-CH
WHT
BLK
RED
RED
RED
BLK
RED
F701
100mAT
F702
100mAT
PT701
POWER
DIAL
METER
PL701 PL702 PL703
R701
4.7
(2W)
VS701
VOLTAGE
SELECTOR
ORG
VIO
BRN
YEL
BLU
GRY
F704
125mAT
F703
125mAT
WHT
S701
POWER
OFF
ON
CNJ701
AC IN
GRY
BRN
S1
ANTENNA
SELECTOR
EXT
BUILT IN
S2
FUNCTION
(LW)
ON
OFF
S3
FUNCTION
(MW)
ON
OFF
S4
FUNCTION
(SW)
ON
OFF
S5
FUCTION
(FM)
ON
OFF
S6
MUTING / MODE
OFF MONO
ON STEREO
S7
HI-BLEND
ON
OFF

Note:

- [ ] shows the location of stencilled part number. Refer to this mark when replacing the parts.
- Capacitors marked △ are built in transformers.
- (   ) : Muting switch "ON".
- ▒▒ : B+ pattern



4-2. SCHEMATIC DIAGRAM



Note:

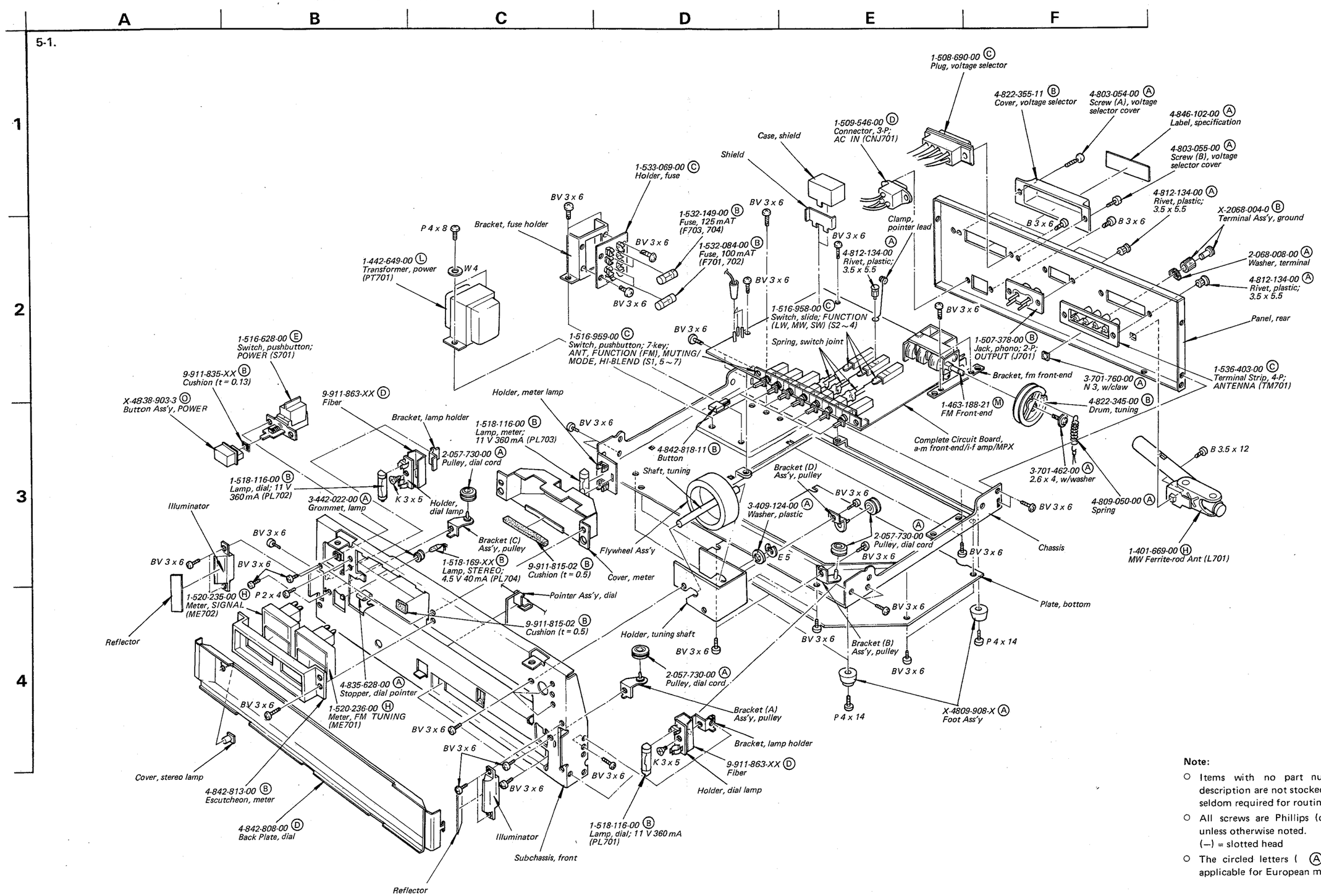
- All capacitors are in μF unless otherwise noted. 50 or less working voltages are not indicated except for electrolytic type. p = μμF.
- All resistors are in Ω, ¼ W, unless otherwise noted. k = 1,000 M = 1,000 k
- △ indicates internal components.
- ⏚ indicates chassis ground.
- ▬ indicates B+ circuit.
- Voltages are DC with respect to ground unless otherwise noted. Readings are taken under no-signal conditions with a VOM (20 kΩ/V).
  ( ) : Muting switch "ON"
  no mark: common
  < > : AM
- Voltage variations may be noted due to normal production tolerances.
- ▭ indicates nonflammable resistor.
- ▭ indicates fusible resistor.
- Switch Mode:

Ref. No.	Description	Position
S1	ANT (MW/LW only)	BUILT IN
S2	LW (FUNCTION)	OFF
S3	MW (FUNCTION)	OFF
S4	SW (FUNCTION)	OFF
S5	FM (FUNCTION)	ON
S6	MUTING	ON
	MODE	STEREO
S7	HI-BLEND	OFF
S8	DE-EMPHASIS	50 μS
S701	POWER	OFF

SECTION 5

EXPLODED VIEWS

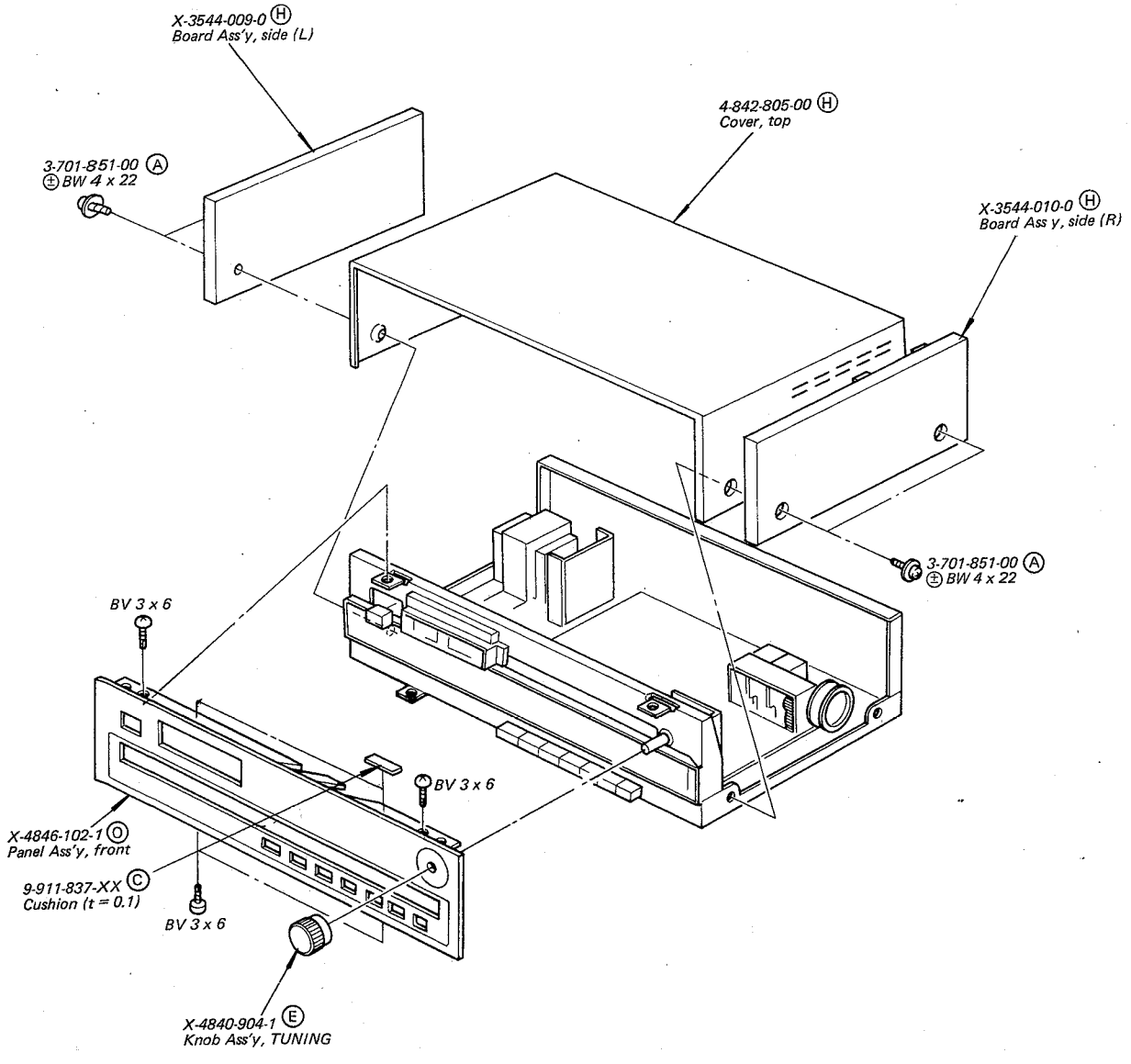
5-1.


1-508-690-00 C Plug, voltage selector
4-822-355-11 B Cover, voltage selector
4-803-054-00 A Screw (A), voltage selector cover
4-846-102-00 A Label, specification
4-803-055-00 A Screw (B), voltage selector cover
4-812-134-00 A Rivet, plastic; 3.5 x 5.5
X-2068-004-0 B Terminal Ass'y, ground
2-068-008-00 A Washer, terminal
4-812-134-00 A Rivet, plastic; 3.5 x 5.5
Panel, rear
1-536-403-00 C Terminal Strip, 4-P; ANTENNA (TM701)
1-509-546-00 D Connector, 3-P; AC IN (CNJ701)
Case, shield
Shield
1-533-069-00 C Holder, fuse
1-532-149-00 B Fuse, 125 mAT (F703, 704)
1-532-084-00 B Fuse, 100 mAT (F701, 702)
Clamp, pointer lead
4-812-134-00 A Rivet, plastic; 3.5 x 5.5
1-442-649-00 L Transformer, power (PT701)
Bracket, fuse holder
P 4 x 8
W 4
BV 3 x 6
B 3 x 6
1-516-628-00 E Switch, pushbutton; POWER (S701)
9-911-835-XX B Cushion (t = 0.13)
X-4838-903-3 O Button Ass'y, POWER
9-911-863-XX D Fiber
Bracket, lamp holder
1-516-959-00 C Switch, pushbutton; 7-key; ANT, FUNCTION (FM), MUTING/ MODE, HI-BLEND (S1, 5 ~ 7)
1-516-958-00 C Switch, slide; FUNCTION (LW, MW, SW) (S2 ~ 4)
Spring, switch joint
1-507-378-00 B Jack, phono; 2-P; OUTPUT (J701)
Bracket, fm front-end
3-701-760-00 A N 3, w/claw
1-463-188-21 M FM Front-end
4-822-345-00 B Drum, tuning
Holder, meter lamp
1-518-116-00 B Lamp, meter; 11 V 360 mA (PL703)
2-057-730-00 A Pulley, dial cord
4-842-818-11 B Button
Complete Circuit Board, a-m front-end/i-f amp/MPX
Shaft, tuning
Bracket (D) Ass'y, pulley
3-409-124-00 A Washer, plastic
E 5
3-701-462-00 A 2.6 x 4, w/washer
B 3.5 x 12
4-809-050-00 A Spring
1-401-669-00 H MW Ferrite-rod Ant (L701)
Chassis
1-518-116-00 B Lamp, dial; 11 V 360 mA (PL702)
3-442-022-00 A Grommet, lamp
K 3 x 5
Holder, dial lamp
Illuminator
Bracket (C) Ass'y, pulley
1-518-169-XX B Lamp, STEREO; 4.5 V 40 mA (PL704)
9-911-815-02 B Cushion (t = 0.5)
Flywheel Ass'y
Cover, meter
Pointer Ass'y, dial
1-520-235-00 H Meter, SIGNAL (ME702)
P 2 x 4
Reflector
Plate, bottom
Holder, tuning shaft
Bracket (B) Ass'y, pulley
P 4 x 14
4-835-628-00 A Stopper, dial pointer
1-520-236-00 H Meter, FM TUNING (ME701)
Bracket (A) Ass'y, pulley
X-4809-908-X A Foot Ass'y
Cover, stereo lamp
4-842-813-00 B Escutcheon, meter
4-842-808-00 D Back Plate, dial
Illuminator
Subchassis, front
1-518-116-00 B Lamp, dial; 11 V 360 mA (PL701)
Holder, dial lamp
Reflector

Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (—) = slotted head
- The circled letters (Ⓐ to Ⓩ) are applicable for European model only.

5-2.



Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (–) = slotted head
- The circled letters (Ⓐ to Ⓩ) are applicable for European model only.

SECTION 6
ELECTRICAL PARTS LIST

Note: The circled letters (Ⓐ to Ⓩ) are applicable for European model only.

Ref. No.	*Part No.*	*Description*
		SEMICONDUCTORS
		Transistors
⇒ Q201		Ⓑ 2SC632A
Q401 ~ 406		Ⓑ 2SC710
⇒ Q501, 502		Ⓑ 2SC632A
Q601		Ⓒ 2SC1173
		ICs
IC201		Ⓗ HA1137
⇒ IC301		Ⓙ HA1156W
		Diodes
D201		Ⓑ 1S1555
D202		Ⓑ 1T22A
D301		Ⓑ 1S1555
D401, 402		Ⓑ 1S1555
D403		Ⓑ 1T22A
D601		Ⓒ EQA01-16R
D602, 603		Ⓑ 10E2
		COILS
L401	1-407-178-XX	Ⓐ Microinductor, 1 μH
L402	1-407-184-XX	Ⓐ Microinductor, 3.3 μH
L403	1-407-169-XX	Ⓐ Microinductor, 100 μH
L404	1-407-204-XX	Ⓑ Microinductor, 6.8 mH
L405	1-407-173-XX	Ⓐ Microinductor, 220 μH
L406	1-401-663-00	Ⓑ SW Ant
L407	1-401-664-00	Ⓑ LW Ant
L408	1-405-730-00	Ⓑ SW Osc
L409	1-405-732-00	Ⓑ MW Osc
L410	1-405-731-00	Ⓑ LW Osc
L701	1-401-669-00	Ⓗ MW/LW Ferrite-rod Ant

⇒: Due to replacement parts, the discriptions are different from the diagrams.

Ref. No.	*Part No.*	*Description*
		TRANSFORMERS
IFT201	1-404-029-00	Ⓒ FM Discriminator
IFT401	1-403-963-21	Ⓔ AM IFT
IFT402	1-403-149-00	Ⓑ AM IFT
PT701	1-442-649-00	Ⓛ Power
		FILTERS
CF201	1-527-240-91	Ⓔ Ceramic
LPF(301, 302)	1-231-303-00	Ⓒ Low-pass

CAPACITORS

All capacitors are in μF and of ceramic unless otherwise noted. (p = μμ, elect = electrolytic) 50 or less working volts are omitted except for electrolytic type.

C201, 202	1-101-925-11	Ⓐ 0.047		
C203	1-121-395-11	Ⓐ 4.7	25 V	elect
C204	1-102-112-11	Ⓐ 330 p		
C205	1-121-726-11	Ⓐ 0.47	50 V	elect
C206	1-121-392-11	Ⓐ 3.3	25 V	elect
C207	1-101-924-11	Ⓐ 0.022		
C208	1-121-391-11	Ⓐ 1	50 V	elect
C209	1-102-112-11	Ⓐ 330 p		
C210	1-101-924-11	Ⓐ 0.022		
C211, 212	1-101-925-11	Ⓐ 0.047		
C213, 214	1-102-732-11	Ⓐ 75 p		
C215	1-121-421-11	Ⓑ 220	16 V	elect
C301	1-121-392-11	Ⓐ 3.3	25 V	elect
C302	1-121-651-11	Ⓐ 10	16 V	elect
C303	1-103-717-11	Ⓐ 470 p		polystyrol
C304	1-121-651-11	Ⓐ 10	16 V	elect
C305	1-121-421-11	Ⓑ 220	16 V	elect
C306, 307	1-121-726-11	Ⓐ 0.47	50 V	elect
C308, 309	1-108-830-12	Ⓐ 0.0027		mylar
C310	1-108-845-12	Ⓐ 0.047		mylar
C311 ~ 313	1-121-726-11	Ⓐ 0.47	50 V	elect
C314, 315	1-108-830-12	Ⓐ 0.0027		mylar

Note: The circled letters (Ⓐ to Ⓩ) are applicable for European model only.

Ref. No.	*Part No.*	*Description*		
C316	1-121-410-11	Ⓑ 47	25 V	elect
C317	1-108-827-12	Ⓐ 0.0015		mylar
C401	1-101-923-11	Ⓐ 0.01		
C402	1-121-415-11	Ⓑ 100	16 V	elect
C403 ~ 405	1-101-924-11	Ⓐ 0.022		
C406	1-121-726-11	Ⓐ 0.47	50 V	elect
C407, 408	1-101-924-11	Ⓐ 0.022		
C409	1-101-923-11	Ⓐ 0.01		
C410, 411	1-101-924-11	Ⓐ 0.022		
C412	1-101-884-11	Ⓐ 56 p		
C413, 414	1-108-834-12	Ⓐ 0.0056		mylar
C415	1-108-837-12	Ⓐ 0.01		mylar
C416	1-121-413-11	Ⓐ 100	6.3 V	elect
C417	1-121-410-11	Ⓑ 47	25 V	elect
C418	1-101-924-11	Ⓐ 0.022		
C419	1-121-391-11	Ⓐ 1	50 V	elect
C420, 421	1-121-392-11	Ⓐ 3.3	25 V	elect
C422	1-101-924-11	Ⓐ 0.022		
C423	1-108-826-12	Ⓐ 0.0012		mylar
C424	1-101-924-11	Ⓐ 0.022		
C425, 426	1-101-923-11	Ⓐ 0.01		
C427	1-102-943-11	Ⓐ 6 p		
C428	1-108-833-12	Ⓐ 0.0047		
C429	1-108-828-12	Ⓐ 0.0018		mylar
C430	1-108-827-12	Ⓐ 0.0015		mylar
C431	1-102-939-11	Ⓐ 2 p		
C432	1-102-958-11	Ⓐ 20 p		
C433	1-103-738-11	Ⓐ 3600 p		polystyrol
C434	1-102-292-11	Ⓐ 15 p		
C435	1-102-958-11	Ⓐ 20 p		
C436	1-103-714-11	Ⓐ 360 p		polystyrol
C437	1-102-943-11	Ⓐ 6 p		
C438	1-101-880-11	Ⓐ 47 p		
C439	1-103-706-11	Ⓐ 160 p		polystyrol
C440	1-101-882-11	Ⓐ 51 p		
C441	1-121-651-11	Ⓐ 10	16 V	elect
C442	1-102-296-11	Ⓐ 18 p		
C443, 444	1-121-391-11	Ⓐ 1	50 V	elect
C501	1-121-726-11	Ⓐ 0.47	50 V	elect
C502	1-101-884-11	Ⓐ 56 p		
C503	1-121-391-11	Ⓐ 1	50 V	elect
C504	1-121-726-11	Ⓐ 0.47	50 V	elect
C505	1-121-415-11	Ⓑ 100	16 V	elect
C506	1-101-884-11	Ⓐ 56 p		
C507	1-121-391-11	Ⓐ 1	50 V	elect
C508	1-108-835-12	Ⓐ 0.0068		mylar
C601	1-121-422-11	Ⓑ 220	25 V	elect
C602	1-108-841-12	Ⓐ 0.022		mylar
C603	1-121-657-11	Ⓑ 1000	25 V	elect
CP601	1-102-355-11	Ⓐ (0.01	500 V) x 2	ceramic
CT401, 403 CT405, 406	1-141-147-00	Ⓑ Trimmer		
CT402, 404	1-141-138-XX	Ⓑ Trimmer		

RESISTORS

All resistor are in Ω. Regular-type ¼W carbon resistors are omitted. Check the schematic diagram for the resistance values. (k = 1000)

R212	1-211-534-11	Ⓐ 330	¼W	carbon (nonflammable)
R213	1-211-522-11	Ⓐ 100	¼W	carbon (nonflammable)
R312	1-211-522-11	Ⓐ 100	¼W	carbon (nonflammable)
R314	1-202-559-11	Ⓐ 270	½W	composition
R315	1-211-530-11	Ⓐ 220	¼W	carbon (nonflammable)
R402, 403 R405, 418	1-211-516-11	Ⓐ 56	¼W	carbon (nonflammable)
R426	1-211-526-11	Ⓐ 150	¼W	carbon (nonflammable)
R501	1-211-526-11	Ⓐ 150	¼W	carbon (nonflammable)
R601	1-211-935-11	Ⓐ 1 k	¼W	carbon (nonflammable)
R602	1-217-523-11	Ⓐ 10	¼W	fusible
R701	1-207-624-11	Ⓑ 4.7	2 W	wirewound
RT201	1-222-764-11	Ⓐ 22 k, adjustable		
RT202	1-222-766-11	Ⓑ 100 k, adjustable		
RT301	1-222-752-11	Ⓑ 10 k, adjustable		
RT501	1-222-764-11	Ⓐ 22 k, adjustable		

Note: The circled letters (Ⓐ to Ⓩ) are applicable for European model only.

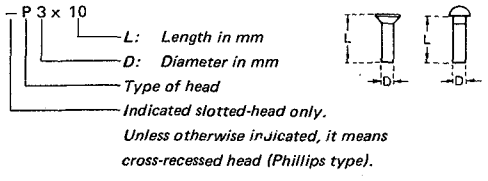
Ref. No.	*Part No.*	*Description*
		SWITCHES
S1, 5 ~ 7	1-516-959-00	Ⓗ Pushbutton, 7-key; ANT, FUNCTION (FM), MUTING/ MODE, HI-BLEND
S2 ~ 4	1-516-958-00	Ⓒ Slide, FUNCTION (LW, MW, SW)
S8	1-516-954-00	Ⓑ De-emphasis
S701	1-516-628-00	Ⓔ Pushbutton, POWER
		MISCELLANEOUS
CNJ701	1-509-546-00	Ⓓ Connector, 3-p; AC IN
F701, 702	1-532-084-00	Ⓑ Fuse, 100 mAT
F703, 704	1-532-149-00	Ⓑ Fuse, 125 mAT
J701	1-507-378-00	Ⓑ Jack, phono; 2-p; OUTPUT
ME701	1-520-236-00	Ⓗ Meter, FM TUNING
ME702	1-520-235-00	Ⓗ Meter, SIGNAL
PL701 ~ 703	1-518-116-00	Ⓑ Lamp, 11 V 360 mA; dial, meter
PL704	1-518-169-XX	Ⓑ Lamp, 4.5 V 40 mA; STEREO
TM701	1-536-403-00	Ⓒ Terminal Strip, 4-p; ANTENNA
	1-463-188-21	Ⓗ FM Front-end
	1-508-690-00	Ⓒ Plug, voltage selector
	1-533-069-00	Ⓒ Holder, fuse

ACCESSORIES

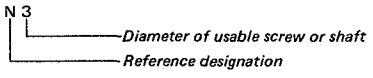
Part No.	*Description*
X-4490-002-2	Ⓑ Cloth Ass'y, polishing
1-501-161-00	Ⓕ Ribbon Antenna, f-m
1-534-049-61	Ⓕ Cord, connection; RK-74
1-534-492-00	Ⓒ Cord, SW antenna
1-534-819-00	Ⓖ Cord, power (UK Model)
3-780-970-11	Ⓔ Manual, instruction

HARDWARE NOMENCLATURE

Screw:



Nut, Washer, Retaining ring:



Reference Designation	Shape	Description	Remarks
		SCREWS	
P		pan-head screw	binding-head (B) screw for replacement
PWH		pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSW PSPW		pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R		round-head screw	binding-head (B) screw for replacement
K		flat-countersunk-head screw	
RK		oval-countersunk-head screw	
B		binding-head screw	
T		truss-head screw	binding-head (B) screw for replacement
F		flat-fillister-head screw	
RF		fillister-head screw	
BV		braizer-head screw	

Reference Designation	Shape	Description	Remarks
		SELF-TAPPING SCREWS	
TA		self-tapping screw	ex: TA, P 3 x 10
PTP		pan-head self-tapping screw	binding-head self-tapping (TA, B) screw for replacement
PTPWH		pan-head self-tapping screw with washer face	binding-head self tapping (TA, B) screw and flat washer for replacement
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
		SET SCREWS	
SC		set screw	
SC		hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket
		NUT	
N		nut	
		WASHERS	
W		flat washer	
SW		spring washer	
LW		internal-tooth lock washer	ex: LW3, internal
LW		external-tooth lock washer	ex: LW3, external
		RETAINING RINGS	
E		retaining ring	
G		grip-type retaining ring	

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